



QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	31.78	8	8
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	93.87	10	10
11	GSB	SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
13	DBM	STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
14	BC	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
15	BITUMEN	Flash Point	One Test		1	1
		Fire Point	One Test		1	1
		Rate of spread	One Test		1	1
16	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-06-15-16 Date: 18-02-21

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 15-02-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 16-02-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	—
2	Fineness by Air permeability method (m ² /kg, Min)	298.5	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-06-15-16 Date: 16-03-21

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 15-02-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 16-02-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-06-15-16 Date: 18-02-21
Project Name : Improvements to Roads and Drains at Jakkur and Srirampura
Surrounding Area in Ward No.05 (Jakkur)
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road,
4th Cross, Near Priya Darshini School, Kengeri Satellite Town,
Bangalore-60.
Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt : 15-02-21
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 15-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2021-06-15-16

Date: 18-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.42	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.21	—

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-06-15-16 **Date:** 18-02-21

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 15-02-21

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 15-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2021-06-15-16

Date: 18-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.27	—
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-06-15-16 Date: 18-02-21
Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt : 15-02-21
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 15-02-21
Total weight taken : 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-06-15-16

Date: 18-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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**TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS**

Lab ID : CP-2021-06-15-16 Date: 19-04-21

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 15-04-21

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 15-04-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	398	150	202	12059	21.818	1809.2	1861.5	Not less than 1800Kg/m ³
2	402	151	203	12323	23.770	1929.0		
3	398	153	199	12118	22.373	1846.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-06-15-16

Date: 19-04-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	151	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	403	152	201	
3	401	153	202	
4	400	150	201	
5	403	152	201	
6	402	149	202	
7	401	151	199	
8	400	149	199	
9	403	152	199	
10	402	149	199	
11	404	151	203	
12	400	150	202	
13	404	152	200	
14	400	150	199	
15	400	150	200	
16	401	152	202	
17	400	152	202	
18	399	150	200	
19	402	149	203	
20	401	149	203	
Average of 20	402	151	201	

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Lab ID : CP-2021-06-15-16

Date: 19-04-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	151	60311	288.0	4.8	4.7
2	403	152	61297	282.2	4.6	
3	401	153	61218	282.3	4.6	
4	400	150	60085	282.8	4.7	
5	403	152	61172	285.4	4.7	
6	402	149	59944	288.0	4.8	
7	401	151	60453	285.9	4.7	
8	400	149	59625	283.1	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : CP-2021-06-15-16 Date: 16-02-21
Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt : 15-02-21
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 15-02-21

S.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

*The results obtained are satisfactory as per standard requirements.



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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-06-15-16
Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt : 04-03-21
Sample Type /Size : Precast Cover Slab (100mm)
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 04/03/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-06-15-16 Date: 08-03-21
Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21
Date of Receipt : 04-03-21
Sample Type /Size : Precast Cover Slab (250mm)
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 04/03/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	561.9	17.8	16.6	20.7
2	Cover Slab-2	200.49	250.52	3.122	31564	569.3	18.0	16.8	21.0
3	Cover Slab-3	200.50	250.51	3.118	31567	564.5	17.9	16.6	20.8

The results obtained are satisfactory as per standard requirements.

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****End of Report****



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-06-15-16 Date: 28/04/2021

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 23-04-21

Customer ID : Copping Concrete, (Telecom Layout-15th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
10	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	150.11 X	22665	8.836	289.7	12.8	12.6
					150.99 X					
					151.66					
22	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	150.02 X	22476	8.533	279.0	12.4	
					149.82 X					
					149.18					
30	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	150.78 X	22844	8.555	286.7	12.5	
					151.51 X					
					151.78					

The results obtained are satisfactory as per standard requirements.

28.05.21
Asst. Executive Engineer
Project Division
Yelahanka Zone
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Quality Manager

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****End of Report****



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-06-15-16 Date: 19/05/2021

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 23-04-21

Customer ID : Copping Concrete, (Telecom Layout-15th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
11	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	19/05/2021	149.10 X	22361	8.328	391.6	17.5	17.7
					149.97 X					
					151.38					
12	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	19/05/2021	151.81 X	22735	8.676	405.0	17.8	
					149.76 X					
					150.51					
13	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	19/05/2021	149.83 X	22680	8.695	405.7	17.9	
					151.37 X					
					150.00					

The results obtained are satisfactory as per standard requirements.



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-06-15-16 Date: 28/04/2021

Project Name : Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)

Agency : Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.

Customer's Reference : EE(Project)/Ynk Zone/ WO/161/2020-21

Date of Receipt : 23-04-21

Customer ID : Copping Concrete, (Telecom Layout-15th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
01	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	151.28 X	22794	8.836	293.7	12.9	12.6
					150.68 X					
					150.91					
02	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	149.62 X	22334	8.533	281.2	12.6	
					149.27 X					
					150.21					
03	Capping Concrete, (Telecom Layout-15th Cross Road)	M15	21/04/2021	28/04/2021	149.10 X	22614	8.555	276.0	12.2	
					151.67 X					
					149.40					

The results obtained are satisfactory as per standard requirements.

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****End of Report****



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Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2021-06-15-16

Date: 19/05/2021

- Improvements to Roads and Drains at Jakkur and Srirampura Surrounding Area in Ward No.05 (Jakkur)
- Sri. Gnanendra Murthy M D, #410, Balaji Nilaya, 5th Main Road, 4th Cross, Near Priya Darshini School, Kengeri Satellite Town, Bangalore-60.
- EE(Project)/Ynk Zone/ WO/161/2020-21
- 23-04-21
- Copping Concrete, (Telecom Layout-15th Cross Road)
- 150X150X150 mm
- M15 / 28 Days Compressive Strength
- IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
- 19/05/2021

Sl. No.	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	M15	21/04/2021	19/05/2021	150.78 X	22912	8.328	393.4	17.2	17.4
				151.95 X					
				149.88					
2	M15	21/04/2021	19/05/2021	149.21 X	22360	8.676	402.2	18.0	
				149.86 X					
				149.99					
3	M15	21/04/2021	19/05/2021	149.94 X	22406	8.695	382.3	17.1	
				149.43 X					
				150.08					

Results are satisfactory as per standard requirements.

W. S. S. S.
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R. V. T.
R KARTHIK RECHAN
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Quality Manager

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****End of Report****